OH OH OH OH OH Reducing agent 
$$\mathbb{R}^1$$
  $\mathbb{R}^4$ 

A B C OXIDIZING AGENT  $\mathbb{R}^1$   $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 

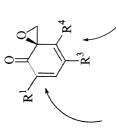
OXIDIZING AGENT  $\mathbb{R}^1$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 

OXIDIZING AGENT  $\mathbb{R}^1$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 

I

$$\begin{array}{c}
R^{1} & O \\
R^{3}O \\
R^{4}
\end{array}$$
OXIDIZING AGENT
$$\begin{array}{c}
R^{1} & O \\
R^{3}O \\
R^{4}
\end{array}$$
E

$$R^1$$
 $R^3$ 
 $R^4$ 
 $OXIDIZING AGENT$ 
 $R^1$ 
 $R^4$ 
 $R^3$ 
 $R^4$ 
 $R^4$ 
 $R^4$ 



Epoxidized by nucleophilic oxidizing agents (e.g. basic hydrogen peroxide, t-butylhydroperoxide, etc.)

Epoxidized by electrophilic oxidizing agents (e.g. mCPBA, mono-perphthalic acid, etc.)